

## IN THE CLAIMS

Please amend claims 33, 37, 38, 40, 44, 45, 46, 51, and 52 as set forth below.

Please add new claims 53-57 as set forth below.

A complete listing of all claims in this application is set forth below.

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Claims 1-32 (canceled).

33. (currently amended) A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

a tube segment having a distal tube orifice, a proximal tube orifice and a tube lumen extending therebetween; and

a tissue ingrowth member secured to an outer surface of said guide catheter and configured to facilitate fibrous tissue growth therein, whereby subcutaneous tissue of said body becomes affixed to said tissue ingrowth member when said tissue ingrowth member remains in contact with said subcutaneous tissue over a period of time,


wherein said tube segment extends through said distal guide orifice, wherein said proximal tube orifice is positioned within said guide lumen, and

wherein distal tube orifice is positioned outside of said guide lumen.

34. (previously added) The catheter system of claim 33, further comprising:

a pusher attached to said tube segment; and

a closure member attached to said pusher, said closure member configured to couple to said guide catheter.



35. (previously added) The catheter system of claim 34, wherein said pusher includes an elongate plastic member having a distal end secured to said tube segment.

36. (previously added) The catheter system of claim 34, wherein said pusher includes a metal wire having a distal end secured to said tube segment.

37. (currently amended) ~~The catheter system of claim 34,~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween;

a tube segment having a distal tube orifice, a proximal tube orifice and a tube lumen extending therebetween;

a pusher attached to said tube segment; and

a closure member attached to said pusher, said closure member configured to couple to said guide catheter,

wherein said tube segment extends through said distal guide orifice,

wherein said proximal tube orifice is positioned within said guide lumen,

wherein distal tube orifice is positioned outside of said guide lumen,

wherein said pusher includes: (i) a swivel, (ii) an upper pusher portion interposed between said closure member and said swivel, and (iii) a lower pusher portion interposed between said swivel and said tube segment.

38. (currently amended) ~~The catheter system of claim 34, wherein:~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and  
a guide lumen extending therebetween;

a tube segment having a distal tube orifice, a proximal tube orifice and a  
tube lumen extending therebetween;

a pusher attached to said tube segment; and  
a closure member attached to said pusher, said closure member  
configured to couple to said guide catheter,

wherein said tube segment extends through said distal guide orifice,  
wherein said proximal tube orifice is positioned within said guide lumen,  
wherein distal tube orifice is positioned outside of said guide lumen,  
wherein said guide catheter includes a sideport branch which defines a  
sideport lumen, and

wherein said pusher is positioned within said sideport branch and said  
guide lumen.

Claim 39 (canceled).

40. (currently amended) A catheter system, comprising:  
a guide catheter having a distal guide orifice, a proximal guide orifice, and  
a guide lumen extending therebetween; ~~and~~  
an insert assembly at least partially positioned within said guide catheter,  
said insert assembly including (i) a tube segment having a proximal tube orifice  
located in said guide lumen, and a distal tube orifice located outside of said guide  
lumen, and (ii) a pusher attached to said tube segment; and  
a tissue ingrowth member secured to an outer surface of said guide  
catheter and configured to facilitate fibrous tissue growth therein, whereby  
subcutaneous tissue of said body becomes affixed to said tissue ingrowth  
member when said tissue ingrowth member remains in contact with said  
subcutaneous tissue over a period of time,  
wherein movement of said pusher causes movement of said tube  
segment.

41. (previously added) The catheter system of claim 40, further  
comprising a closure member attached to said pusher, said closure member  
configured to couple to said guide catheter.

42. (previously added) The catheter system of claim 40, wherein said  
pusher includes an elongated plastic member secured to said tube segment.

43. (previously added) The catheter system of claim 40, wherein said  
pusher includes a metal wire having a distal end secured to said tube segment.

44. (currently amended) ~~The catheter system of claim 41,~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

an insert assembly at least partially positioned within said guide catheter, said insert assembly including (i) a tube segment having a proximal tube orifice located in said guide lumen, and a distal tube orifice located outside of said guide lumen, and (ii) a pusher attached to said tube segment, wherein movement of said pusher causes movement of said tube segment,

wherein said pusher includes: (i) a swivel, (ii) an upper pusher portion interposed between said closure member and said swivel, and (iii) a lower pusher portion interposed between said swivel and said tube segment.

45. (currently amended) ~~The catheter system of claim 40, wherein:~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

an insert assembly at least partially positioned within said guide catheter, said insert assembly including (i) a tube segment having a proximal tube orifice located in said guide lumen, and a distal tube orifice located outside of said guide lumen, and (ii) a pusher attached to said tube segment,

wherein movement of said pusher causes movement of said tube segment,

wherein said guide catheter includes a sideport branch which defines a sideport lumen, and

wherein said pusher is positioned within said sideport lumen and said guide lumen.

46. (currently amended) A catheter system, comprising:  
a guide catheter having a distal guide orifice, a proximal guide orifice, and  
a guide lumen extending therebetween; and  
an inner conduit having (i) a proximal conduit orifice located in said guide  
lumen, (ii) a distal conduit orifice located outside of said guide lumen, and (ii) a  
conduit lumen extending between said proximal conduit orifice and said distal  
conduit orifice; and  
a tissue ingrowth member secured to an outer surface of said guide  
catheter and configured to facilitate fibrous tissue growth therein, whereby  
subcutaneous tissue of said body becomes affixed to said tissue ingrowth  
member when said tissue ingrowth member remains in contact with said  
subcutaneous tissue over a period of time.

47. (previously added) The catheter system of claim 46, further  
comprising a pusher attached to said conduit, wherein movement of said pusher  
causes movement of said inner conduit.



48. (previously added) The catheter system of claim 47, further comprising a closure member attached to said pusher, said closure member being configured to couple to said guide catheter.

49. (previously added) The catheter system of claim 47, wherein said pusher includes an elongate plastic member having a distal end secured to said tube segment.

50. (previously added) The catheter system of claim 47, wherein said pusher includes a metal wire having a distal end secured to said tube segment.

51. (currently amended) ~~The catheter system of claim 48,~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

an inner conduit having (i) a proximal conduit orifice located in said guide lumen, (ii) a distal conduit orifice located outside of said guide lumen, and (ii) a conduit lumen extending between said proximal conduit orifice and said distal conduit orifice;

a pusher attached to said conduit, wherein movement of said pusher causes movement of said inner conduit; and

a closure member attached to said pusher, said closure member being configured to couple to said guide catheter,

wherein said pusher includes: (i) a swivel, (ii) an upper pusher portion interposed between said closure member and said swivel, and (iii) a lower pusher portion interposed between said swivel and said tube segment.

52. (currently amended) ~~The catheter system of claim 47, wherein:~~ A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween;

an inner conduit having (i) a proximal conduit orifice located in said guide lumen, (ii) a distal conduit orifice located outside of said guide lumen, and (ii) a conduit lumen extending between said proximal conduit orifice and said distal conduit orifice; and

a pusher attached to said conduit, wherein movement of said pusher causes movement of said inner conduit,

wherein said guide catheter includes a sideport branch which defines a sideport lumen, and

wherein said pusher is positioned within said sideport lumen and said guide lumen.

53. (New) A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

a tube segment having a distal tube orifice, a proximal tube orifice and a tube lumen extending therebetween,

wherein said tube segment extends through said distal guide orifice,

wherein said proximal tube orifice is positioned within said guide lumen,

wherein distal tube orifice is positioned outside of said guide lumen, and

wherein fluid advancing into said catheter system through said proximal guide orifice (i) contacts an interior surface of said guide catheter that defines said guide lumen, (ii) advances through said proximal tube orifice, (iii) advances through said tube lumen, and (iv) advances out of said catheter system through said distal tube orifice.

54. (New) The catheter system of claim 53, further comprising a pusher attached to said tube segment, wherein movement of said pusher causes movement of said tube segment.

55. (New) A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween; and

an insert assembly at least partially positioned within said guide catheter, said insert assembly including (i) a tube segment having a proximal tube orifice located in said guide lumen, and a distal tube orifice located outside of said guide lumen, and (ii) a pusher attached to said tube segment,

wherein movement of said pusher causes movement of said tube segment, and

wherein fluid advancing into said catheter system through said proximal guide orifice (i) contacts an interior surface of said guide catheter that defines said guide lumen, (ii) advances into said tube segment through said proximal tube orifice, and (iii) advances out of said catheter system through said distal tube orifice.

56. (New) A catheter system, comprising:

a guide catheter having a distal guide orifice, a proximal guide orifice, and a guide lumen extending therebetween;

an inner conduit having (i) a proximal conduit orifice located in said guide lumen, (ii) a distal conduit orifice located outside of said guide lumen, and (ii) a conduit lumen extending between said proximal conduit orifice and said distal conduit orifice; and

wherein fluid advancing into said catheter system through said proximal guide orifice (i) contacts an interior surface of said guide catheter that defines said guide lumen, (ii) advances through said proximal conduit orifice, (iii) advances through said conduit lumen, and (iv) advances out of said catheter system through said distal conduit orifice.

57. (New) The catheter system of claim 56, further comprising a pusher attached to said inner conduit, wherein movement of said pusher causes movement of said inner conduit.

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